

Product datasheet for **MC201030**

Crtc3 (NM_173863) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crtc3 (NM_173863) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Crtc3
Synonyms:	2610312F20Rik; 6332415K15Rik; AI429792; BC011210; TORC3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>BC011210 sequence for NM_173863
 CCCACGCGTCCGCGCGGAAGTTCAGTGAGAAGATCGCCCTGCACACGCAGCGGCAGGCCGAGGAGACGCG
 GGCTTCGAGCAGCTCATGACCGACCTCACCTGTCCCGGTTTCAGTTTCAGAAGCTTCAGCAGCTGCGC
 CTTACCCAGTACCACGGGGATCCTTACCCAACGTGAGCCAGCTGCGGACCAGCGCGCCAGAGTTCCAGC
 CATCACTTCATCAAGCCGATAATGTTTCGTGGAACCCGCCACCATGGGCTGGTGGAGAGCCAGCCCGGAA
 CCGCTTCCACCCCTTACCAGAGGTCTGGGACAAGCCAGGGAGACAGTTTGATGGGAATGCTTTCGCA
 GCCAGTTATTCTTACAGCACCTGGATGAGAGCTGGCCACGGCAACAGCCTCCTTGAAAGAAGAGAAGC
 ATCCTGGATTACGGCTAACATCTGCACTTAACAGGACCAATTCTGATTCTGCTCTTACACGAGTGCTCT
 GAGCACAAACCCAGGACCCCTATGGAGGAGGAGCCAGTCAGCCTGGCCTGCCCATACATGGGTTTC
 TGTGATGGTGA AACGACGGCCATGCGGAAGTAGCCGCTTCCCGGTTCTGCTGAAAGAAGAGAATCTGT
 TAAATGTCCCGAAGCCACTGCCTAAACACCTGTGGGAGAGCAAGGAGATCCAGTCCCTGTCTGGCGCCC
 TCGATCCTGTGATGTTGGGGCGGCAATGCTTCCACATAATGGCCAGAACACAGGCCTCTCACCGTTC
 CTGGGCACCTGAACACCGGAGGGTCGTTACCAGATCTAACCAACCTCCACTACTCAGCACCCCTGCCAG
 CCTCCCTGGACACCAGCGACCACCTCTTGGTAGCATGAGTGTGGGGAACAGCGTGGCAACCTTCCAGC
 TGCCATGACTCACCTGGGATAAGAACCTCCTCTGGTCTCCAAAGTTCTCGAAGTAACCCCTCCATCCAA
 GCCACACTCAGTAAGATGGCACTCTCCTCGTCCCTCAAGTGCCACCCGACGCCGTCTGTGGCCAATGCC
 CTGCTCTGCACCCCTCCCTCCGGCTCTTCTCCCTTAGCAACCCGCTCTTTCCACCACAAACCTGAGTGG
 CCCCTCTCGGCGCAGGCAGCCTCCAGTCAGCCCTCTCACGCTCTCTCCTGGCCCTGAAGCACATCAAGGC
 TTCAGCAGACAGCTCTCTGCGACCAGCCACTGAACCCGATCCTGCCTCCAGATGGTGACCTCAGAGC
 AGAGCCCACTTTCCTTCTGCCACAGACGCTCAAGCCCAAGTGTCCCAACACCCCTTACCCACACC
 CCAGGAGCTGCCACAGCCACTCTACAGCAGCCCATGCCAGGAGCCCAACTCAGCAGCCCAAGGCA
 GCGCCCTCCCTGCCACAGTCAGACTTCCAGTCTCACTGCCAGGGCTCAGCTTGGACAGCTTCTTCC
 CGGATGTGCGCTTGGACCAACAGCCCATGAGGCCAGCCCTGCCCTTCCCTCAGCAGGTGCCTTGGTACA
 GCAGAGCCACCGAGAACCACAGGACTATTCCACTTGGACCAACCCATATTCCAGCTGTGGCAGCTTC
 CCAGGCACCATCCTGACAGAAGATACAAACAGCAACCTGTTCAAAGCCCTTAGCGGGGGGCTGTCGGGCA
 TGCCAGAGGTGAGCCTGGACATGGACACCCGTTCCCTCTGGAAGAGGAGCTGCAGATCGAACCTTGAG
 CCTCGATGGACTCAACATGCTAAGTGACTCCAGCATGGGCTGCTGGACCCCTCTGTGGAGGAGACGTTT
 CGAGCTGACCGGCTATGAGCACAGTGCAGTGGAACTGGGAACTGAAATGGCCAGAGAAAGCTGGGGTGG
 AGCCAGCAACACCCCTGCCGGTGGTACAGCCAGCAACACCCCTGACAGTGGTACAGCCAGCAACACC
 TTGACGGTGGTTACAGCATAGAGGGAGCCGCTGCCCGGGCTCTCCACTGAGCTCAGCAAGGCTTTGCT
 AGACACGGCTGCACTCTCGGCCATGGCACCAGTTGACTGCTGCAGGCCAGCTGCTTTGGAGCTCCG
 GTGACCAGGAAGCTGACCATGTACCCTTAATTCTCTTTATTGGCCATCCAGTCAGTCAGTGTGTAATG
 TAGAAAATGCTGTGTAACACGTGCTGCTCCAAACCTCAGATTCCATCAGCACTGAAGATGGAACGCTA
 TAGGAGGCAGTTGGGGGCTCGGGCCGTTAGTGGTCACTGTCACACAACCGTACCAGACACCATG
 ATGCCCTTCTGTCTGACCGCAAGGCCAGGCAGCCCTCCAGCTGGCGGGTATTCTGGGCCAGCCATCAC
 TCTGTCCAATGGCTCACTTAAATGAAGAAGCTTACCCAGCCGTCAGGAGGCTTAAGTTAGGCAAA
 CTGAAGGCAGTTGCTTCTCCCGGTTATGATCTTTGCTGCTGCTTCTGTATGCGCACCTTCCCT
 CACAGACAGGAGGAGAGGAGACCTGTTGCTCACTGAAAAAATGCTTGGAAACAGGATGAGCCTAA
 GGAGGACAGCGCTCCTAGGAGAATGGAGGAGAAAGGAGGCTACAGGTGTGTACCTGCACAAGATGCC
 CTCCCTCTTAGGCCTGCCACCCTCCAGCCACTGGAAGGAGCTGCTGGGACTCGTATTAGTGCAGGGCAG
 CTGAACTGCCCTTCTCCCGAGCTGCCCTGCAGACCTCAAGTTAATGCAATGCCACTAGACTGTAACT
 CCCAGAGGGCAGGAAGTGTGCTTGTCTGATTGACCCCTAGTGCCACCAAGTGCCTGGTAGGAGTGC
 ATGTACCCAGGGATGGAGGAGAGAGGACTGTGCCTCGTGGTGGGGCGGTCTAACCTGCAGCTCTCTG
 TCCCTGCCTTAGCTCAGAGCTTACCTTTTCACTCACTTGGTGTGCCTTAACTAGGTGACCAGAC
 CTGCCACTAGGCTCAGCGCCACTCCTCCTAGGGAATATGTCCCTCAGCAGCTAGGTGGACATCATCCAGT
 GCATCCAGCATGGCTGATCACACCAAGCCCAAGGAGTGTGGGGCACCTGGCATCCAGACTGGGCCCTAC
 AGCAAATCTTCTCTCGGACCTGTACTTTTTTTTTTCTAAATGCTTAAAATAGAGGTGCAAACCTTTG
 AGGTTAAGAAATAAGGCCTGGCTGGGCGTGGTGGCACCCGCTTAAATCCAGCACTTGGGAGGCAGAGG
 CAGTAGGAATTCTGAGTTTGGAGCCAGCCTGGTCTACAGAGTGTGTTCCAGGATAGCCAGGGCTACGCG
 AGAAACCCCTGCTCGAAAAAACAAAAACAAAAACAAAAACAAAAAGAAAGAAAGAAAAA

Restriction Sites:

RsrII-NotI

ACCN:	NM_173863
Insert Size:	963 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC011210 , AAH11210
RefSeq Size:	3426 bp
RefSeq ORF:	963 bp
Locus ID:	70461
UniProt ID:	Q91X84
Cytogenetics:	7 D3
Gene Summary:	Transcriptional coactivator for CREB1 which activates transcription through both consensus and variant cAMP response element (CRE) sites (PubMed:29211348, PubMed:30611118). Acts as a coactivator, in the SIK/TORC signaling pathway, being active when dephosphorylated (PubMed:29211348). Acts independently of CREB1 'Ser-133' phosphorylation (By similarity). Enhances the interaction of CREB1 with TAF4 (By similarity). Regulates the expression of specific CREB-activated genes such as the steroidogenic gene, StAR (By similarity). Potent coactivator of PPARGC1A and inducer of mitochondrial biogenesis in muscle cells (By similarity).[UniProtKB/Swiss-Prot Function]